

KENWOOD

DDX155 DDX1035 DDX1035M

MONITOR WITH DVD RECEIVER
INSTRUCTION MANUAL

JVC KENWOOD Corporation



Made for



iPod



iPhone



Designed for

Windows
Media™

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Before use

⚠ WARNINGS:

(To prevent accidents and damage)

- DO NOT install any unit or wire any cable in a location where;
 - it may obstruct the steering wheel and gearshift lever operations.
 - it may obstruct the operation of safety devices such as air bags.
 - it may obstruct visibility.
- DO NOT operate the unit while driving. If you need to operate the unit while driving, be sure to look around carefully.
- The driver must not watch the monitor while driving.

⚠ Cautions on the monitor:

- The monitor built in this unit has been produced with high precision, but it may have some ineffective dots. This is inevitable and is not considered defective.
- Do not expose the monitor to direct sunlight.
- Do not operate the touch panel using a ball-point pen or similar tool with the sharp tip.
Press the buttons on the touch panel with your finger directly (if you are wearing a glove, take it off).
- When the temperature is very cold or very hot...
 - Chemical changes occur inside, causing malfunction.
 - Pictures may not appear clearly or may move slowly. Pictures may not be synchronized with the sound or picture quality may decline in such environments.

For safety...

- Do not raise the volume level too much, as this will make driving dangerous by blocking outside sounds, and may cause hearing loss.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

■ How to reset your unit

Reset button



If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed (except the registered Bluetooth devices).

How to read this manual:

- This manual mainly explains operations using the buttons on the monitor panel and touch panel. For operations using the remote controller, see page 6.
- < > indicates the variable screens/menus/operations/settings that appear on the touch panel.
- [] indicates the buttons on the touch panel.

The displays and panels shown in this manual are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual displays or panels.

The marking of products using lasers



The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.



Declaration of Conformity with regard to the EMC Directive 2004/108/EC

Declaration of Conformity with regard to the RoHS Directive 2011/65/EU

Manufacturer:

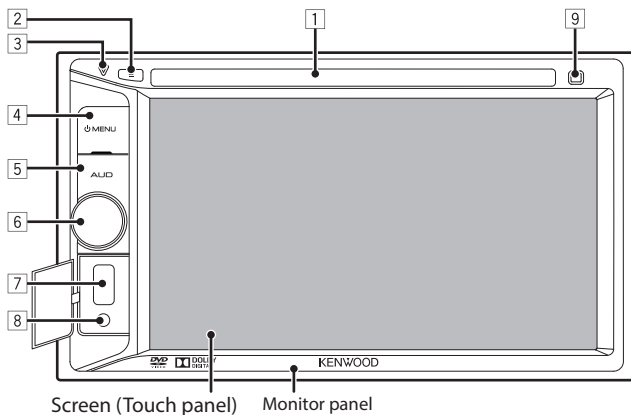
JVC KENWOOD Corporation
3-12 Moriya-cho, Kanagawa-ku, Yokohamashi,
Kanagawa, 221-0022, Japan

EU Representative:

JVCKENWOOD NEDERLAND B.V.
Amsterdamseweg 37, 1422 AC UITHOORN,
The Netherlands

INTRODUCTIONS

Overview Of The Main Unit



1 Loading slot

2 ▲ (Eject) button
• Ejects the disc.

3 Reset button/Power indicator indicator
• Resets the unit. (See page 3)
• Lights up while the unit is turned on.

4 ⏻ MENU button
• Turns off the power. (Hold)
• Turns on the power. (Press)
• Displays the <Top Menu> screen.
(Press)

5 AUD button
• Displays the <Equalizer> screen.
(Press) (See page 24)

6 VOL/Mute knob
• Turns on/off the mute. (Press)
• Adjusts the audio volume. (Turn)

7 USB input terminal

8 iPod/AV IN2 input terminal

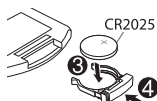
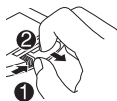
9 Remote sensor

Overview Of The Remote Control

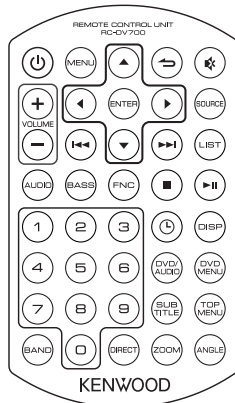
⚠ CAUTION

- Keep battery out of reach of children and in original package until ready to use. Dispose of used batteries promptly. If swallowed contact physician immediately.
- Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.
- Do not set the remote control in hot places such as on the dashboard.
- The Lithium battery is in danger of explosion if replaced incorrectly. Replace with the same or equivalent type.

How to install the battery



- If the effectiveness of the remote control decreases, replace the batteries.



- Aim the remote control directly at the remote sensor on the faceplate.
- DO NOT expose the remote sensor to bright light (direct sunlight or artificial lighting).

Button	Operations
	Turns the power on/off.
MENU	Displays the top menu screen.
	Selects an item.
ENTER	Confirms the selection.
VOLUME +/-	Adjusts the volume level.
	Searches for radio stations automatically. (Press)
	Searches for radio stations manually. (Hold)
	Selects a track. (Press)
	Reverse search/forward search. (Hold)
	Returns to previous layer during menu operation.
AUDIO	Selects the preset equalizer.
BASS	Activates/deactivate Bass Sound.
FNC	Displays the function menu for the source.
0 - 9	Enters the number.
BAND	Selects the band.

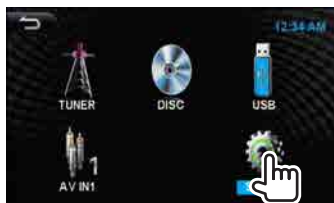
Button	Operations
	Exits from the menu.
	Mutes/restores the sound.
SOURCE	Selects a source.
LIST	Displays the item list for the selected source.
	Stops playback.
	Starts/pauses playback.
	Displays the clock.
DISP	Displays on-screen information.
DVD MENU	Displays the DVD disc menu.
TOP MENU	Returns to the DVD top menu.
DVD/AUDIO	Selects the audio language.
SUBTITLE	Selects the subtitle language.
ANGLE	Selects the view angle.
ZOOM	Magnifies the picture. (Not available for still picture playback.)
DIRECT	Enters direct search mode.

Setting the clock

- 1 Display the <Top Menu> screen.
On the source control screen:



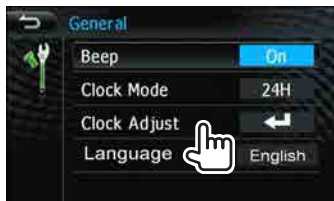
- 2 Display the <SETUP> screen.



- 3 Display the <General> screen.



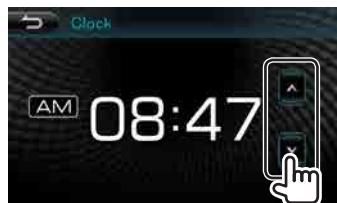
- 4 Display the <Clock> screen.



- 5 Select the hour or minute.



- 6 Set the clock time.



- 7 Finish the procedure.



AV SOURCE OPERATIONS

Selecting the playback source

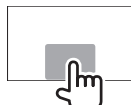


DISC (page 10)	Plays a disc.
TUNER (page 22)	Switches to the radio broadcast.
iPod *1 (page 19)	Plays an iPod/iPhone.
USB (page 16)	Plays files on a USB device.
AV IN1/AV IN2 *1 (page 23)	Switches to an external component connected to AV IN1 and iPod/AV IN2 input terminals.

*1 Select an appropriate input setting on **<AV IN SETUP>**. (page 28)

Displaying the source control screen

On video playback screen



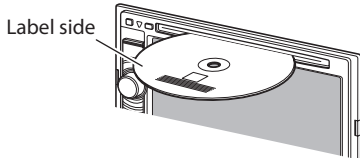
- The operation buttons disappear by touching the screen.

Disc operations

Playing a disc

- If a disc does not have a disc menu, all tracks on it will be played repeatedly until you change the source or eject the disc.

■ Inserting a disc



The source changes to **"DISC"** and playback starts.

- If "⊘" appears on the screen, the unit cannot accept the operation you have tried to do.
 - In some cases, without showing "⊘", operations will not be accepted.
- When playing back a multi-channel encoded disc, the multi-channel signals are downmixed to stereo.

■ Ejecting a disc



- You can eject a disc when playing another AV source.
- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust.

When removing a disc, pull it horizontally.

Playable disc types

Disc type	Recording format, file type, etc.	Playable
DVD	DVD-Video * ¹ Region Code: • For DDX155: 5 • For DDX1035: 3 • For DDX1035M: 2	✓OK
	DVD-Audio/DVD-ROM	✗NO
DVD Recordable/ Rewritable (DVD-R/-RW, +R/+RW *²) • DVD Video: UDF bridge • MPEG1/MPEG2/MPEG4/ JPEG/MP3/WMA: ISO 9660 level 1, level 2, Romeo, Joliet	DVD-Video	✓OK
	MPEG1/MPEG2/MPEG4	
	JPEG	
	MP3/WMA	
	DVD-VR/DVD+VR/DVD-RAM/DivX/WAV/AAC	✗NO
Dual Disc	DVD side/Non-DVD side	✗NO
CD/VCD	Audio CD	✓OK
	VCD (Video CD)	
	SVCD (Super Video CD)/CD-ROM/CD-I (CD-I Ready)	✗NO
CD Recordable/ Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet	CD-DA	✓OK
	VCD (Video CD)	
	MPEG1/MPEG2/MPEG4	
	JPEG	
	MP3/WMA	
	DivX/WAV/AAC	✗NO

*¹ If you insert a DVD Video disc of an incorrect Region Code, "DVD Region error" appears on the screen.

*² It is possible to play back finalized +R/+RW (Video format only) discs. "DVD" is selected as its disc type when a +R/+RW disc is loaded. +RW double layer discs are not playable.

Playback operations

To display the source control screen,  page 9.

For DVD/VCD/MPEG1/MPEG2/MPEG4/JPEG



Playing time

- DVD Video: Title no./Chapter no.
- MPEG1/MPEG2/MPEG4: Folder no./Track no.
- JPEG: Folder no./File no.
- VCD: Track no.

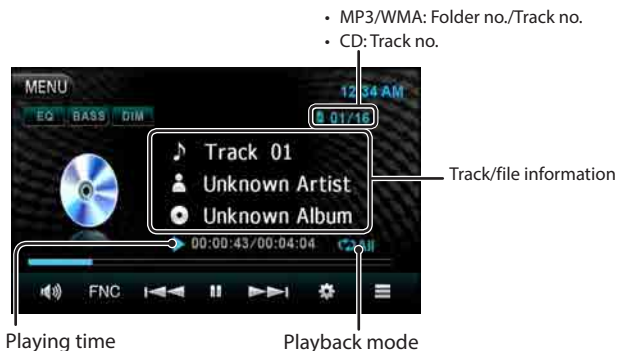
[EQ]	Enters the < Equalizer > settings. ( page 24)
[BASS]	Activates/deactivate Bass Sound.
[DIM]	Activates/deactivate dimmer.
[◀ 1/3 ▶]	Switching the video menu. ( page 14, 26)
[FNC]	Enters the < Function > settings. ( page 14)
[II]	Starts/pauses playback.

[◀◀] [▶▶]	• Selects a chapter/track. (Press) • Reverse/forward search.*¹ (Hold)
[⚙]	Displays the < Set Up > screen. ( page 28)
[≡] * ²	Displays the DVD disc menu.
[MENU]	Displays the < Top Menu > screen.

*¹ Search speed varies depending on the type of disc or file.

*² Does not appear for VCD.

For CD/MP3/WMA



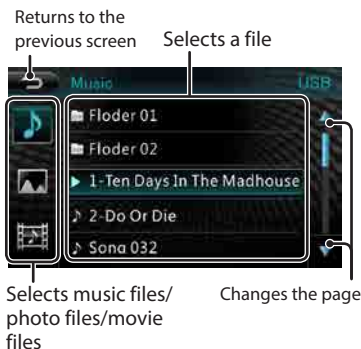
[EQ]	Enters the <Equalizer> settings. (see page 24)
[BASS]	Activates/deactivate Bass Sound.
[DIM]	Activates/deactivate dimmer.
[MUTE]	Mutes/restores the sound.
[FNC]	Enters the <Function> settings. (see page 14)
[PAUSE]	Starts/pauses playback.

[LEFT/RIGHT]	• Selects a track. (Press) • Reverse/forward search.*1 (Hold)
[SETUP]	Displays the <Set Up> screen. (see page 28)
[LIST]	Displays the folder/track list. (see below)
[MENU]	Displays the <Top Menu> screen.

*1 Search speed varies depending on the type of disc or file.

*2 Does not appear for CD.

Selecting folder/track on the list



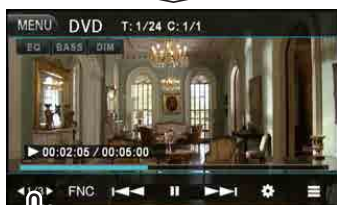
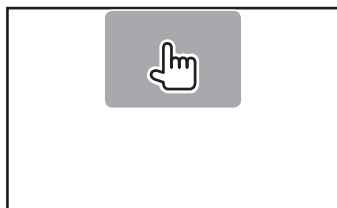
Playing Recordable/Rewritable discs

- This unit can recognize a total of 9 999 files and 999 folders (a maximum of 9 999 files per folder).
- Use only "finalized" discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some discs or files may not be played back due to their characteristics or recording conditions.

Video menu operations

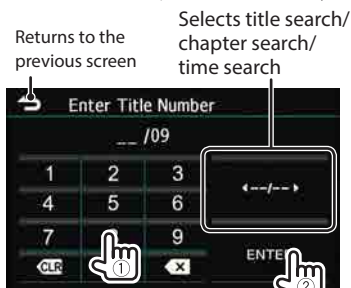
You can display the video menu screen during video playback.

- Available items on the screen differ depending on the types of the loaded disc and playback files.
- The operation buttons disappear by touching the screen.



Audio	Selects the audio type.
Subtitle	Selects the subtitle type.
MENU	Displays the disc menu (DVD).
Aspect	Selects the aspect ratio. (see page 26)
Direct	Displays/hides the direct selecting buttons. (see below)

- To select a title, chapter, or time directly



- When you enter a wrong number, press [X] to delete the last entry. Press [CLR] to delete the all entry.

Setting the functions

For DVD

1



2



Selects view angle

- Each time you press the button, the playback mode changes.
 - Available items differ depending on the types of loaded disc and playback file.

Setting <Repeat>

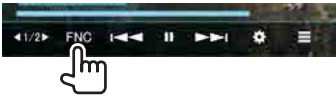
Display	Playback mode
CH	Repeats current chapter.
TT	Repeats current title/program.
All	Repeats all title/program.
Off	Cancel all the repeat function.

Setting <Video Setting>

- You can change the setting for video playback. (see page 26)

For VCD

1



2

Selects the audio channel (Stereo/ Left/ Right)



Activates/deactivates the PBC function

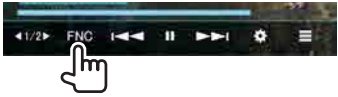
- Each time you press the button, the playback mode changes.
 - Available items differ depending on the types of loaded disc and playback file.

Setting <Repeat>

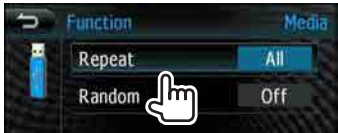
Display	Playback mode
One	Repeats the current track. (When the PBC function is off.)
All	Repeats all tracks.

For CD/MPEG1/MPEG2/MPEG4/MP3/WMA

1



2



- Each time you press the button, the playback mode changes.
 - Available items differ depending on the types of loaded disc and playback file.

Setting <Repeat>

Display	Playback mode
One	Repeats the current track.
Folder	Repeats all tracks in the current folder. (except for CD)
All	Repeats all tracks.

Setting <Random>

Display	Playback mode
On	Randomly plays all tracks.
Off	Cancel all the random function.

Setting <Video Setting>

- You can change the setting for video playback. (see page 26)

USB operations

Playing a USB device

- This unit can play JPEG/MPEG1/MPEG2/MPEG4/MP3/WMA files stored in a USB mass storage class device.
- This unit can recognize a total of 9 999 files and 999 folders (a maximum of 9 999 files per folder).
- Make sure all important data has been backed up to avoid losing the data.

■ Connecting a USB device

You can connect a USB mass storage class device such as a USB memory, Digital Audio Player etc. to the unit.

- You cannot connect a computer or portable HDD to the USB input terminal.
- To connect a USB device,  page 37.

When a USB device is connected...

The source changes to **"USB"** and playback starts.

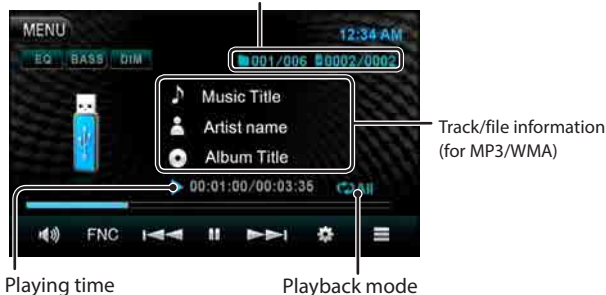
- All tracks in the USB device will be played repeatedly until you change the source.

Cautions:

- This unit may not play back files in a USB device properly when using a USB extension cable.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- This unit may not recognize a memory card inserted into the USB card reader.
- When connecting with a USB cable, use the USB 2.0 cable.
- The maximum number of characters:
 - Folder names : 15 characters
 - File names : 15 characters
- Avoid using the USB device if it might effect driving safety.
- Do not pull out and connect the USB device repeatedly while "Reading..." is shown on the screen.
- Electrostatic shock at connecting a USB device may cause abnormal playback of the device. In this case, disconnect the USB device then reset this unit and the USB device.
- Operation and power supply may not work as intended for some USB devices.
- Do not leave a USB device in the car, or expose to direct sunlight or high temperature to avoid deformation or damage to the device.

- To display the source control screen, page 9.
- To change settings for video playback, page 14.

- MPEG1/MPEG2/MPEG4/MP3/WMA: Folder no./Track no.
- JPEG: Folder no./File no.



[EQ]	Enters the <Equalizer> settings. (page 24)
[BASS]	Activates/deactivate Bass Sound.
[DIM]	Activates/deactivate dimmer.
[	Mutes/restores the sound.
[FNC]	Enters the <Function> settings. (page 18)
[	Starts/pauses playback.

[	• Selects a track. (Press)
[	• Reverse/forward search.* ¹ (Hold)
[	Displays the <Set Up> screen. (page 28)
[	Displays the folder/track list. (page 13)
[MENU]	Displays the <Top Menu> screen.

- Available items differ depending on the types of playback file.

*¹ Search speed varies depending on the type of disc or file.

Setting the functions

For music

1



2



For photo/movie

1



2



Activates/deactivates
slide show

Setting <Repeat>

Display	Playback mode
One	Repeats the current track.
Folder	Repeats all tracks in the current folder.
All	Repeats all tracks.

Setting <Random>

Display	Playback mode
On	Randomly plays all tracks.
Off	Cancel all the random function.

Setting <Repeat>

Display	Playback mode
One	Repeats current songs.
Folder	Repeats all tracks in the current folder.
All	Repeats all songs.

Setting <Video Setting>

- You can change the setting for video playback. (see page 26)

Listening to the iPod/iPhone device

■ Preparation

- Connect iPod/iPhone. (page 37)
 - When connecting iPhone/iPod touch, turn off App beforehand; otherwise the playback may not be started after connection.
- Use the following cables:
 - **To watch the video and to listen to the music (digital):** USB Audio and Video cable for iPod/iPhone—KCA-iP22F (sold separately)
 - **To listen to the music (digital):** USB Audio cable for iPod/iPhone—USB 2.0 cable (accessory of the iPod/iPhone)
- Select appropriate input settings on **<AV IN SETUP>** according to the connection method (the right column)
- Do not use extension cables.

iPod/iPhone that can be connected to this unit:
Made for

- iPod classic
- iPod nano (7th Generation)
- iPod nano (6th Generation)
- iPod nano (5th Generation)
- iPod nano (4th Generation)
- iPod nano (3rd Generation)
- iPod touch (5th Generation)
- iPod touch (4th Generation)
- iPod touch (3rd Generation)
- iPod touch (2nd Generation)
- iPhone 5
- iPhone 4S
- iPhone 4
- iPhone 3GS
- iPhone 3G

* You cannot watch video or use iPod touch/iPhone Apps when connecting iPod nano (7th Generation)/iPod touch (5th Generation)/iPhone 5.

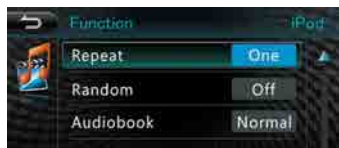
Settings for iPod playback

When the source is "iPod"...

1



2



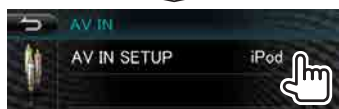
Audiobook	Selects the speed of audio books. Normal/ Slow/ Fast
------------------	---

Setting <AV IN SETUP> for iPod/iPhone playback

1 On <Top Menu>:



2

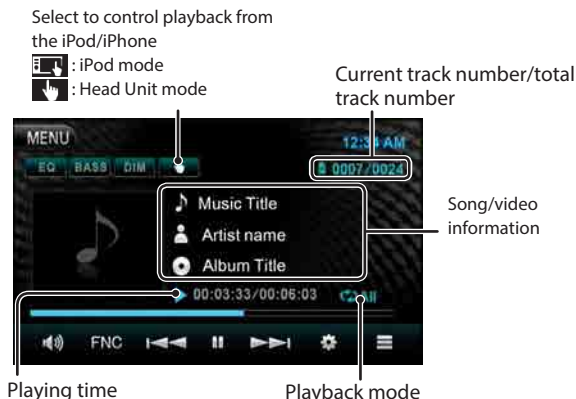


AV IN2	Select this when connecting the iPod/iPhone using the USB Audio cable for iPod/iPhone.
---------------	--

iPod	Select this when connecting the iPod/iPhone using the USB Audio and Video cable for iPod/iPhone.
-------------	--

iPod/iPhone playback operations from the unit

- To display the source control screen, page 9.
- To change settings for video playback, page 14.



[EQ]	Enters the <Equalizer> settings. (page 24)
[BASS]	Activates/deactivate Bass Sound.
[DIM]	Activates/deactivate dimmer.
	: Control playback from the iPod/iPhone.*2 : Control playback from the unit.
[MUTE]	Mutes/restores the sound.
[FNC]	Enters the <Function> settings. (page 21)

[PAUSE]	Starts/pauses playback.
[REVERSE] [FAST FORWARD]	• Selects an audio/video file.*1 (Press) • Reverse/forward search. (Hold)
[SETUP]	Displays the <Set Up> screen. (page 28)
[LIST]	Displays the music/video file list. (page 21)
[MENU]	Displays the <Top Menu> screen.

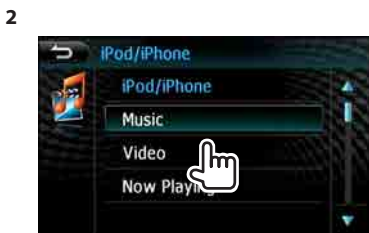
*1 Resume playback is unavailable for video files.

*2 When using iPod with video, you can control playback only from the unit.

- When you turn on this unit, the iPod/iPhone is charged through the unit.
- The text information may not be displayed correctly.

- For some iPod/iPhone models, the performance may be abnormal or unstable during operation. In this case, disconnect the iPod/iPhone device, then check its condition. If the performance is not improved or is slow, reset your iPod/iPhone.
- For the latest compatible list and software version of iPod/iPhone, see: www.kenwood.com/cs/ce/ipod

Selecting an music/video file from the menu



- 3 Select a category, then a desired item.
- Select the item in the selected layer until a desired file starts playing.

Music menu:

Playlists / Albums / Artists / Genres / Songs / Composers / Audio books / Podcast

Video menu:

Movies / Music Videos / TV Shows / Video Podcasts

- Available categories differ depending on the type of your iPod/iPhone.

Setting the functions



Setting <Repeat>

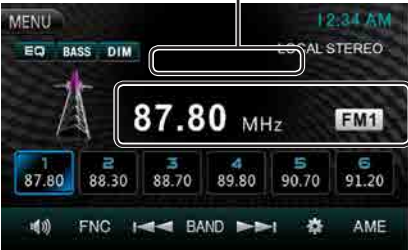
Display	Playback mode
One	Repeats current songs.
All	Repeats all songs.
Off	Cancel all the repeat function.

Setting <Random>

Display	Playback mode
Off	Cancel all the random function.
Songs	Functions the same as "Shuffle Songs".
Albums	Functions the same as "Shuffle Albums".

Listening to the radio

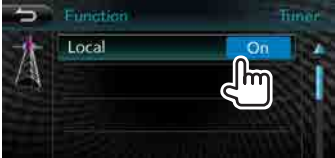
Indicate RDS station name (if available)



Band no./the station frequency currently tuned in

[EQ]	Enters the <Equalizer> settings. (☞ page 24)	[◀◀]	Searches for a station.
[BASS]	Activates/deactivate Bass Sound.	[▶▶]	• Auto Search (Press) • Manual Search (Hold)
[DIM]	Activates/deactivate dimmer.	[BAND]	Selects the band. FM1 → FM2 → FM3 AM2 ← AM1 ←
[1] - [6]	• Selects a stored station. (Press) • Stores the current station. (Hold)	[🔊]	Displays the <Set Up> screen. (☞ page 28)
[M]	Mutes/restores the sound.	[AME]	Storing stations in memory.
[FNC]	Enters the <Function> settings. (☞ page 22)	[MENU]	Displays the <Top Menu> screen.

Tuning in FM stations only with strong signals—Local Seek

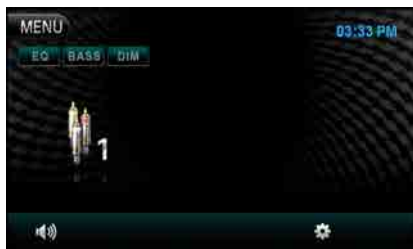
- 
- 

On	Select this to tune in only to stations with sufficient signal strength. The LOCAL indicator lights up.
Off	Deactivate the function.

Using other external components

AV IN

To display the source control screen,  page 9.



[EQ]	Enters the <Equalizer> settings. ( page 24)
[BASS]	Activates/deactivate Bass Sound.
[DIM]	Activates/deactivate dimmer.
[]	Mutes/restores the sound.
[]	Displays the <Set Up> screen. ( page 28)
[MENU]	Displays the <Top Menu> screen.

You can connect external components to the AV IN1 and iPod/AV IN2 input terminals.

Preparation:

If you want to use "AV IN2", select [AV IN2] for <AV IN SETUP> setting. ( page 28)

- No preparation is required for "AV IN1".

- 1 Connect external components to AV IN1 and iPod/AV IN2 input terminals.
To connect external components,
 pages 36 and 37.
- 2 Select "AV IN1" or "AV IN2" as the source.
( page 9)
- 3 Turn on the connected component and start playing the source.

Sound adjustment

Using the sound equalization

- You cannot adjust the sound when the unit is in standby.

■ Selecting a preset sound mode

- 1 On <Top Menu>:



- 2



- 3 Select a sound mode.



- 2 Adjust the level of each band.

Reset to default setting



Bass	-15 dB – +15 dB
Middle	-15 dB – +15 dB
Treble	-15 dB – +15 dB

The adjustments are stored and <User> is activated.

■ Storing your own adjustment

Customizing preset sound mode

- 1 Select a sound mode. (See "Selecting a preset sound mode")

Adjust Audio Setting

Speaker settings

1 On <Top Menu>:



2



3



4



Reset to default setting

To subwoofer settings

Fader	-12 - +12
Balance	-12 - +12

Subwoofer settings

1 On <Top Menu>:



2



3



4



Activates/deactivate the subwoofer.

Reset to default setting

To speaker settings

Level	-6 dB - +6 dB
LPF (low pass filter)	80Hz/ 120Hz/ 160Hz

Setting for video playback

You can change the setting for video playback.

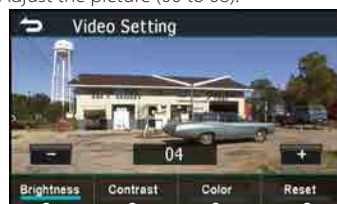
Screen adjustment

You can adjust the picture quality.

- 1 Select [Video Setting].



- 2 Adjust the picture (00 to 08).



Adjusts the
brightness

Adjusts the
contrast

Adjusts the
color

Reset to
default setting

Changing the aspect ratio

You can change the aspect ratio for video playback.

- 1



	4:3	16:9
For 16:9 original pictures		
For 4:3LB original pictures		
For 4:3 original pictures		

Zooming picture

You can zoom the picture (<X2>/ <X3>/ <X4>/ <1/2>/ <1/3>/ <1/4>/ <OFF>).

- 1



[▲] [▼] [◀] [▶]: Moves the zooming frame.

Using a rear view camera

- To use a rear view camera, the REVERSE lead connection is required. For connecting a rear view camera, see page 36.

■ Displaying the picture from the rear view camera

The rear view screen is displayed when you shift the gear to the reverse (R) position.



- To erase the caution message, touch the screen.

System Setup



Setup item		Selectable setting/item	Initial: <u>Underlined</u>
Audio	Subwoofer	Adjust value of subwoofer level and subwoofer low pass filter. (page 25)	
	Speaker	Adjust the Front and Rear speaker fader, the Left and Right speaker balance settings. (page 24)	
Equalizer	Equalizer	Change the sound mode or adjust and store the equalization for each source. (page 24) ◆ <u>User</u> /Pops/Rock/Classic/Jazz/Vocal	
AV IN	AV IN SETUP	You can determine the use of the iPod/AV IN2 input terminal. ◆ AV IN2 : Select to play an AV component connected to the iPod/AV IN2 input terminal. ◆ iPod : Select when connecting the iPod/iPhone using the USB Audio and Video cable for iPod/iPhone. (page 37)	
General	Beep	◆ ON : Activates the key-touch tone. ◆ OFF : Cancels.	
	Clock Mode	◆ 12H : 12 hours. ◆ 24H : 24 hours.	
	Clock Adjust	Adjust the clock time. (page 8)	
	Language	Select the text language used for on-screen information. ◆ for DDX155: English/Russian for DDX1035/ DDX1035M: English/Arabic	
Touch	Calibration	Adjust the touch position of the buttons on screen. (next page)	

Adjusting the touch position

You can adjust the touch position on the touch panel if the position touched and the operation performed do not match.

- 1 On <SETUP>:



- 2 Touch the center of the marks at the 5 steps(point) for calibration.



Maintenance

■ Caution on cleaning the unit

Do not use any solvent (for example, thinner, benzene, etc.), detergent, or insecticide. This may damage the monitor or the unit.



Recommended cleaning method:

Gently wipe the panel with a soft, dry cloth.

■ Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
 - If it becomes very humid inside the car.
- Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

■ How to handle discs

When removing a disc

from its case, press down the center holder of the case and lift the disc out, holding it by the edges.



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in their cases after use.

■ To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzene, etc.) to clean discs.

■ To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

8 cm CD



Warped disc



Sticker and sticker residue



Stick-on label



Unusual shape



C-thru Disc (semi-transparent disc)



Transparent or semi-transparent parts on its recording area



More about this unit

■ File playback

Playing MPEG1/MPEG2/MPEG4 files

- This unit can play back MPEG1/MPEG2/MPEG4 files with the extension code <.mpg>, <.mpeg> or <.avi>.
- The stream format should conform to MPEG system/program stream.
The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level)/MPEG-4 SP (Simple Profile).
- Audio streams should conform to MPEG1 Audio Layer-2, Dolby Digital or MP3.
- The maximum bit rate for video signals (average) is 4 Mbps.
- The file encoded in the interlaced scanning mode may not be played back correctly.

Playing JPEG files

- This unit can play back JPEG files with the extension code <.jpg>.
- This unit can play back JPEG files that are at 32 x 32 to 8 192 x 7 680 resolution.
It may take time to display the file.
- This unit can play back baseline JPEG files. Progressive JPEG files or lossless JPEG files cannot be played.

We bear no responsibility for any loss of data in an iPod/iPhone and USB mass storage class device while using this unit.

Playing MP3/WMA files

- This unit can play back files with the extension code <.mp3> or <.wma> (regardless of the letter case—upper/lower).
- This unit can play back the files meeting the conditions below:
 - Bit rate:
32 kbps – 320 kbps
 - Sampling frequency:
8 kHz – 48 kHz
- This unit can show ID3 Tag Version 1.0/1.1/2.2/2.3/2.4 (for MP3).
- This unit can also show WMA Tag.
- This unit can play back files recorded in VBR (variable bit rate).
- Files recorded in VBR have a discrepancy in elapsed time indication.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA files copy-protected with DRM.

■ Sound signals emitted through the rear terminals

Through the analog terminals (Speaker out/Front Preout/Rear Preout)

2-channel signal is emitted. When playing multi-channel encoded disc, multi-channel signals are downmixed.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

- For operations with the external components, refer also to the instructions supplied with the adapters used for the connections (as well as the instructions supplied with the external components).

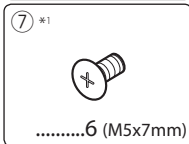
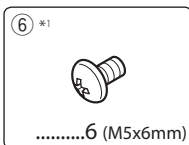
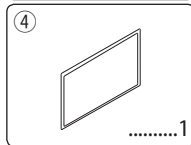
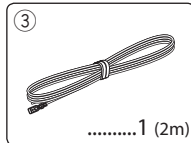
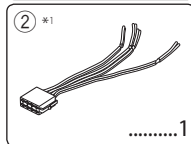
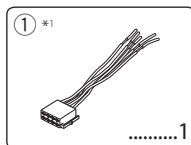
■ If there seems to be a problem

	Symptom	Remedy/Cause
General	No sound comes out of the speakers.	- Adjust the volume to the optimum level. - Check the cords and connections.
	The unit does not work at all.	Reset the unit. (☞ page 3)
	The remote controller does not work.	Replace the battery.
TUNER	AME automatic presetting does not work.	Store stations manually. (☞ page 22)
	Static noise while listening to the radio.	Connect the antenna firmly.
Disc in general	- Recordable/Rewritable discs cannot be played back. - Tracks on the Recordable/Rewritable discs cannot be skipped.	- Insert a finalized disc. - Finalize the discs with the component which you used for recording.
	Playback does not start.	The format of files is not supported by the unit.
	No picture appears on the external monitor.	- Connect the video cord correctly. - Select the correct input on the external monitor.
MPEG1/MPEG2/MPEG4/JPEG/MP3/WMA	Disc cannot be played back.	- Record the tracks using a compliant application on the appropriate discs. (☞ page 11) - Add appropriate extension codes to the file names.
	Tracks are not played back as you have intended them to play.	Playback order may differ from the one played back using other players.
AV IN1/AV IN2	No picture appears on the screen.	- Turn on the video component if it is not on. - Connect the video component correctly. - When "AV IN2" is selected as the source, set <AV IN SETUP> to [AV IN2].

	Symptom	Remedy/Cause
iPod/iPhone	No sound comes out of the speakers.	• Disconnect the iPod/iPhone, then connect it again. • Select another source and then reselect "iPod".
	The iPod/iPhone does not turn on or does not work.	• Check the connecting cable and its connection. • Update the firmware version. • Charge the battery. • Check whether the iPod/iPhone control mode is correctly selected. (page 20) • Reset the iPod/iPhone.
	Sound is distorted.	Deactivate the equalizer either on this unit or the iPod/iPhone.
	A lot of noise is generated.	Turn off (uncheck) the "VoiceOver" feature of the iPod. For details, visit < http://www.apple.com >.
	Sound does not synchronize with the video.	Select < iPod > for < AV IN SETUP >. (page 28)
	• Videos cannot be played. • No sound of videos comes out.	• Connect USB Audio and Video cable KCA-iP22F. Other cables cannot be used. • Select <iPod> for <AV IN SETUP>. (page 28)
USB	"Reading..." keeps flashing on the screen.	Turn off the power and on again.
	While playing a track, sound is sometimes interrupted.	The tracks are not properly copied into the USB device. Copy tracks again, and try again.

Accessories/Installation Procedure

Accessories



*1 DDX1035/DDX1035M only.
*2 DDX155 only.

- 7 Reconnect the $\ominus$ battery.
- 8 Press the reset button.
- 9 Perform the Initial Setup.

⚠ WARNING

- If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- Do not cut out the fuse from the ignition wire (red) and the battery wire (yellow). The power supply must be connected to the wires via the fuse.



- Mounting and wiring this product requires skills and experience. For best safety, leave the mounting and wiring work to professionals.
- Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.
- If the fuse blows, first make sure the wires are not touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.

Installation Procedure

- 1 To prevent a short circuit, remove the key from the ignition and disconnect the $\ominus$ battery.
- 2 Make the proper input and output wire connections for each unit.
- 3 Connect the speaker wires of the wiring harness. (Accessory ②)
- 4 Connect the wiring harness wires in the following order: ground, battery, ignition. (Accessory ①)
- 5 Connect the wiring harness connector to the unit.
- 6 Install the unit in your car.

- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the $\ominus$ wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not use one from each). For example, if you connect the $\oplus$ connector of the left speaker to a front output terminal, do not connect the $\ominus$ connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scars, damage, or failure may result.

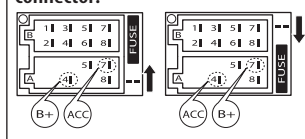
⚠ CAUTION

Install this unit in the console of your vehicle.

Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

Connecting Wires to Terminals

Change the FUSE location to switch ACC and B+ pin location on the ISO connector.



Audio Video input 1 (AV IN1)

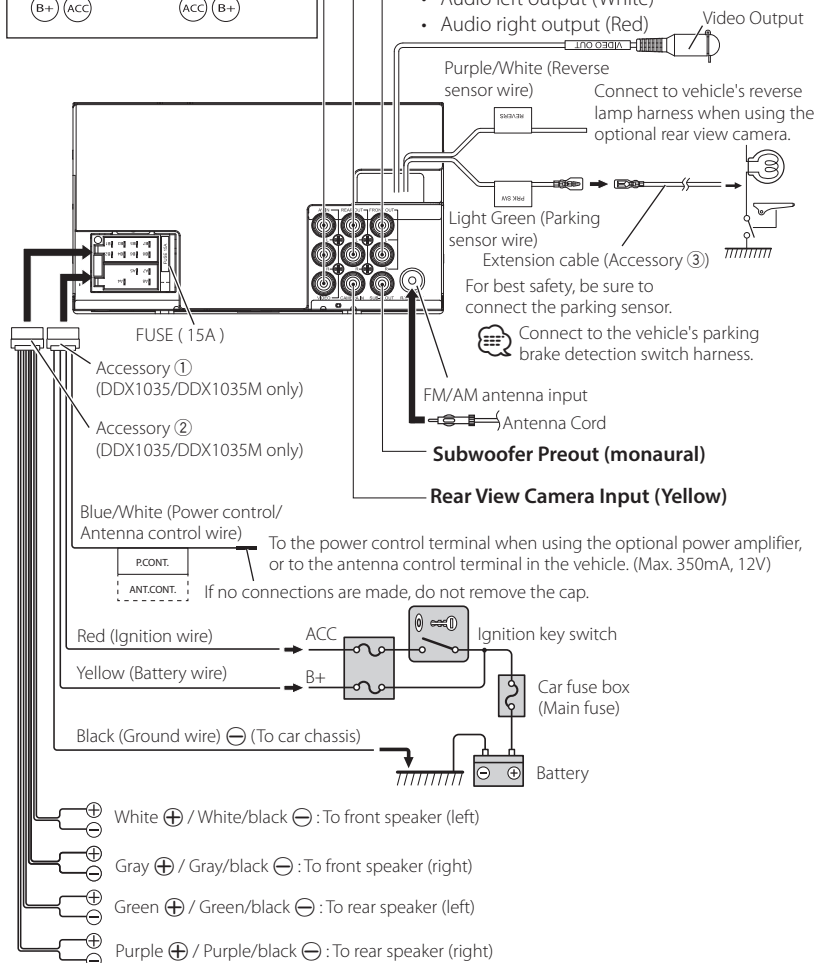
- Video input (Yellow)
- Audio left input (White)
- Audio right input (Red)

Rear Preout

- Audio left output (White)
- Audio right output (Red)

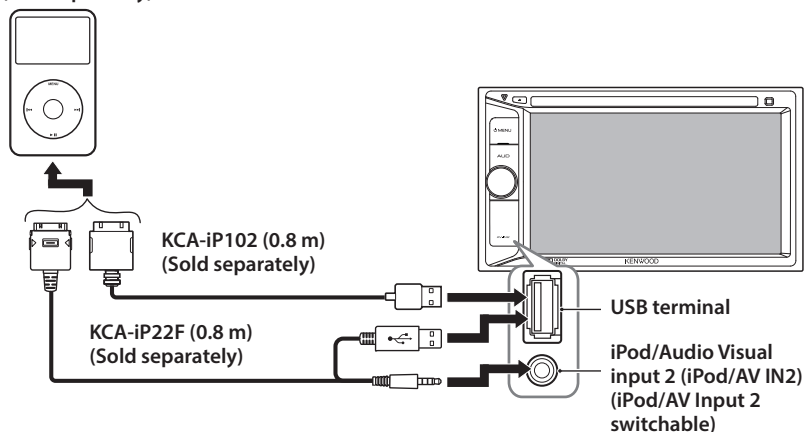
Front Preout

- Audio left output (White)
- Audio right output (Red)

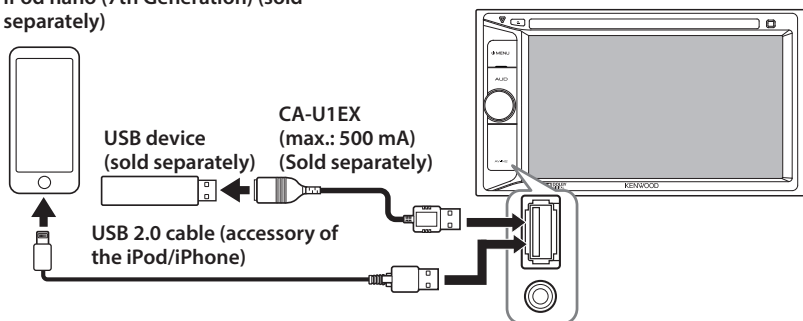


Connecting a USB device/iPod/iPhone

iPod/iPhone except for iPhone 5/
iPod touch (5th Generation)/
iPod nano (7th Generation)
(sold separately)

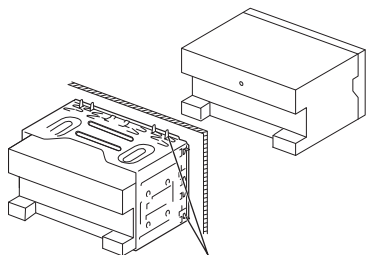


iPhone 5/iPod touch (5th Generation)/
iPod nano (7th Generation) (sold
separately)



Installing/Removing the Unit

Installing the Unit (DDX155 only)

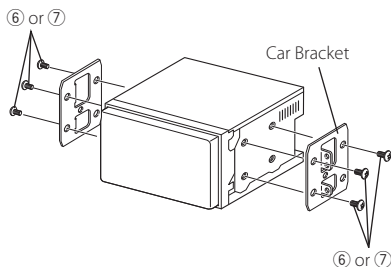


Bend the tabs of the mounting sleeve with a screwdriver or similar utensil and attach it in place.



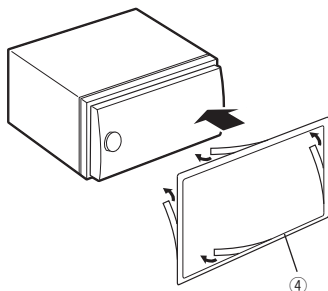
- Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

Installing the Unit (DDX1035/ DDX1035M only)



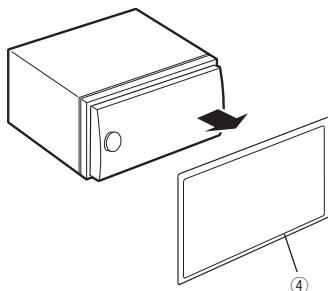
Installing the Trim Plate

- 1 Attach accessory ④ to the unit.



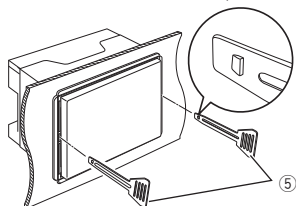
Removing the Trim Plate

- 1 Remove accessory ④ to the unit.

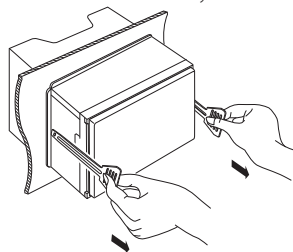


Removing the Unit (DDX155 only)

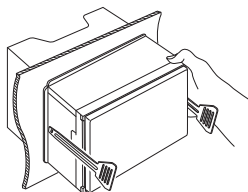
- 1 Remove the trim plate by referring to the removal procedure in the section "Removing the Trim Plate".
- 2 Insert the two extraction keys ⑤ deeply into the slots on each side, as shown. (The protrusion at the tip of the extraction key must face toward the unit.)



- 3 Pull out the unit halfway.



- Be careful to avoid injury from the catch pins on the removal tool.
- 4 Pull the unit all the way out with your hands, being careful not to drop it.



Specifications

Monitor section

- Picture Size**
: 6.2 inches (diagonal) wide
137.40 mm (W) × 77.28 mm (H)
- Display System**
: Transparent TN LCD panel
- Drive System**
: TFT active matrix system
- Number of Pixels**
: 1,152,000 (800H × 480V × RGB)
- Effective Pixels**
: 99.99%
- Pixel Arrangement**
: RGB striped arrangement
- Back Lighting**
: LED

DVD player section

- D/A Converter**
: 24 bit
- Audio Decoder**
: Linear PCM/Dolby Digital/MP3/WMA
- Video Decoder**
: MPEG1/MPEG2/MPEG4
- Wow & Flutter**
: Below Measurable Limit
- Frequency Response**
: Sampling frequency;
96 kHz: 20 Hz – 22,000 Hz
48 kHz: 20 Hz – 22,000 Hz
44.1 kHz: 20 Hz – 20,000 Hz
- Total Harmonic Distortion**
: 0.020% (1 kHz)
- S/N Ratio (dB)**
: 95 dB (DVD-Video 96 kHz)
- Dynamic Range**
: 90 dB (DVD-Video 96 kHz)
- Disc Format**
: DVD-Video/VIDEO-CD/CD-DA
- Sampling frequency**
: 44.1/48/96 kHz
- Quantifying Bit Number**
: 16/20/24 bit

USB interface section

- USB Standard**
: USB 2.0 Full Speed
- File System**
: FAT 16/32
- Maximum Power Supply Current**
: DC 5 V $\overline{\text{max}}$ 1 A
- D/A Converter**
: 24 Bit
- Video Decoder**
: MPEG1/MPEG2/MPEG4
- Audio Decoder**
: MP3/WMA

FM tuner section

- Frequency Range (50 kHz)**
: 87.5 MHz – 108.0 MHz
- Usable Sensitivity (S/N: 26 dB)**
: 11.2 dBf (1.0 μ V/75 Ω)
- Quieting Sensitivity (S/N: 46 dB)**
: 16.4 dBf (1.8 μ V/75 Ω)
- Frequency Response ($\pm$ 3.0 dB)**
: 30 Hz – 14 kHz
- S/N Ratio (dB)**
: 50 dB (MONO)
- Selectivity ($\pm$ 400 kHz)**
: $\geq$ 80 dB
- Stereo Separation**
: 40 dB (1 kHz)

AM tuner section

- Frequency Range (9 kHz)**
: 531 kHz – 1611 kHz
- Usable Sensitivity**
: 25 μ V

Video section

Color System of External Video Input

: NTSC/PAL

External Video Input Level (RCA/mini jack)

: 1 V_{p-p}/75 Ω

External Audio Max Input Level (RCA/mini jack)

: 1.5 V/10 kΩ

Video Output Level (RCA jack)

: 1 V_{p-p}/75 Ω

Video input Level (RCA jack)

: 1 V_{p-p}/75 Ω

Color System of DVD Video Output

: NTSC

Audio section

Maximum Power (Front & Rear)

: 40 W × 4

Full Bandwidth Power (Front & Rear)

(PWR DIN 45324, +B=14.4V)

: 20 W × 4

(at less than 1% THD)

: 14 W × 4

Preout Level (V)

: 2 V/10 kΩ

Preout Impedance

: ≤ 600 Ω

Speaker Impedance

: 4 Ω – 8 Ω

Tone

Bass: 100 Hz ± 15 dB

Middle: 1 kHz ± 15 dB

Treble: 12.5 kHz ± 15 dB

General

Operating Voltage

: 14.4 V (10.5 V – 16 V allowable)

Maximum Current Consumption

: 10 A

Operational Temperature Range

: -10°C – +60°C

Installation Dimensions (W × H × D)

: 183.0 × 112.0 × 158.7 mm

(DDX155)

178.0 × 100.8 × 160.0 mm

(DDX1035/DDX1035M)

Weight

: 2.1 kg (DDX155)

1.9 kg (DDX1035/DDX1035M)

- Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.
- Specifications are subject to change without notice.

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- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- “Made for iPod,” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.
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